72 Fairbanks, Suite 100, Irvine, CA 92618 USA
Tel: 1-949-407-8897 Email: sales@valves-fittings.com
Fax: 1-949-812-6690 Website: www.valves-fittings.com

AV-1 SANITARY BUTTERFLY VALVES

APPLICATION

AV-1 series sanitary butterfly valve is widely used in process piping systems for isolation and control. Butterfly valves operate either manually or automatically.

MATERIAL

Valve Disc: AISI 316L / AISI 304

Valve Body: AISI 316L / AISI 304

Valve seat and Gasket: VMQ (Silicone), comply with FDA 21CFR177.2600

Options:

- The seats and gaskets can be EPDM, VMQ (Silicone) or Viton (FPM,) all complying with FDA 21CFR177.2600.
- End connections: Butt-welded, Sanitary Tri-Clamp, Threaded, Flanged, I-line or others upon request.
- Handles: 4-position pull handle, multi-position handle in either pure stainless steel or with plastic cover.
- Actuators: pneumatic stainless steel actuator (vertical type), pneumatic aluminum actuator (horizontal type), electric actuator.
- Control: Position sensor, C-TOP controller, C-TOP controller (AS-I), Solenoid Valve.

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DESIGN FEATURES

- Various standards can be provided: DIN, 3A, SMS, ISO/IDF, BS/RJT, and ASME/BPE.
- Available in sizes DN15/0.5" to DN300/ 12"
- Max. Working Pressure: 145psi (10 bar) for DN15/0.5"-DN100/4"; 116psi (8 bar) for DN125/5"-DN150/6"; 73psi (5 bar) for DN200/8"-DN300/12".
- Temperature range: 14° F to 248 ° F (-10°C to 120°C) EPDM
- Supply pressure for air actuator: 70-116psi (5-8 bar).
- Multi-position handles can be used for valves up to DN200/8"
  Pull handles can be used for valves from DN15/0.5" to DN300/12"
- Manual handle, pneumatic actuator and electric actuator are interchangeable
- All seals comply with FDA 21CFR 177. 2600
- The valve body can be customized with a wide selection of different connections

OPERATING TORQUE (N.M)

DN25-1"	DN40-1 1/2"	DN50-2"	DN65-2 1/2"	DN80-3"	DN100-4"	DN125-5"	DN150-6"
3	4	5	10	14	25	40	55
Tested under 10kgs/cm^2 pressure, Medium Water.							

TECHNICAL PARAMETER

Steel Material	Product wetted steel parts	AISI 304/ 316L Forged (1.4306 /1.4404)	Provided with material inspection report
	Other steel parts	AISI 304	
Seal Material	Standard	VMQ (Silicone)	All seal materials comply with FDA 21CFR117.2600
	Option	EPDM / Viton（FPM)	
Pressure	Working Pressure	Max.: ≤10bar (145 PSI)	
	Supply pressure for air actuator	Min.- Max.: 5~8bar (70-116 PSI)	
Temperature	Working temperature	14° F to 248 ° F (-10°C to 120°C)	
		Please contact us if higher configuration needed	
	Sterilization temperature	302 ° F (150°C, MAX 20 min)	
Surface Treatment	Inside surface treatment	Ra 16-32 μ in (0.4-0.8 μm)	
	Outside surface treatment	Ra 32 μ in (0.8 μm)	
Connection	Standards: DIN 11850-2 with 11850-1 / SMS / 3A / ISO Series etc End connections: Butt-weld, Tri-clamp, Male and Female Threaded, Flange, I-line or others upon request		
Actuator	• Vertical type with stainless steel 304 material • Horizontal type with aluminum material • Electric actuator • With or without position sensor and solenoid valve • Normally Closed (NC)--Air to open and spring to close; (Single-acting) • Normally Open (NO)--Air to close and spring to open; (Single-acting) • Air to Air (AA)--Air to open, air to close. (Double-acting)		

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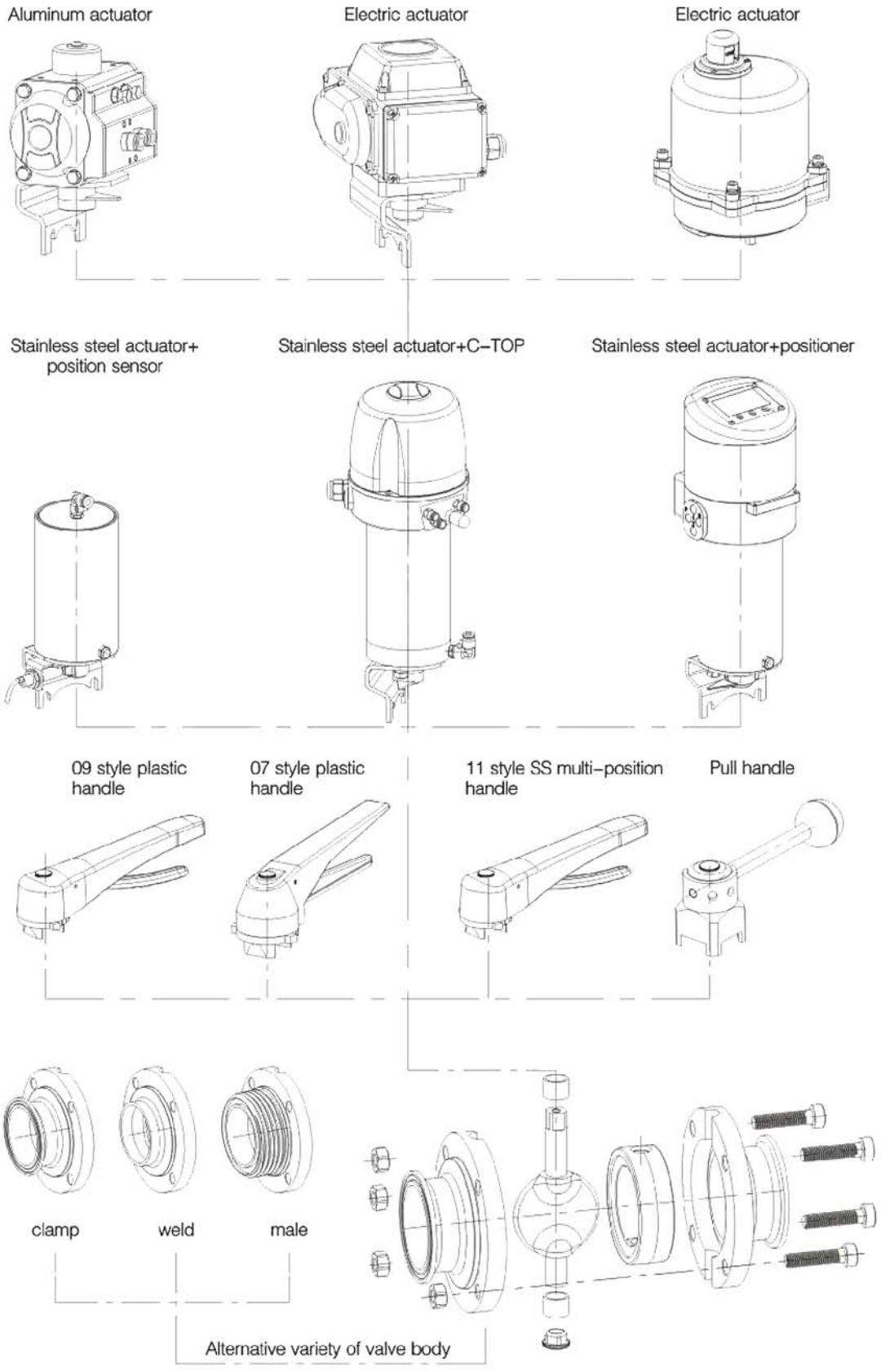

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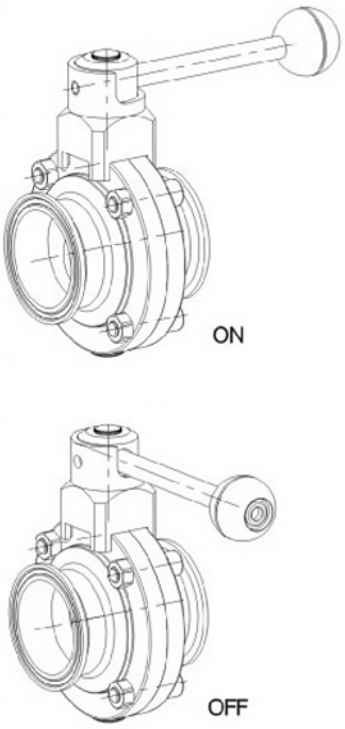
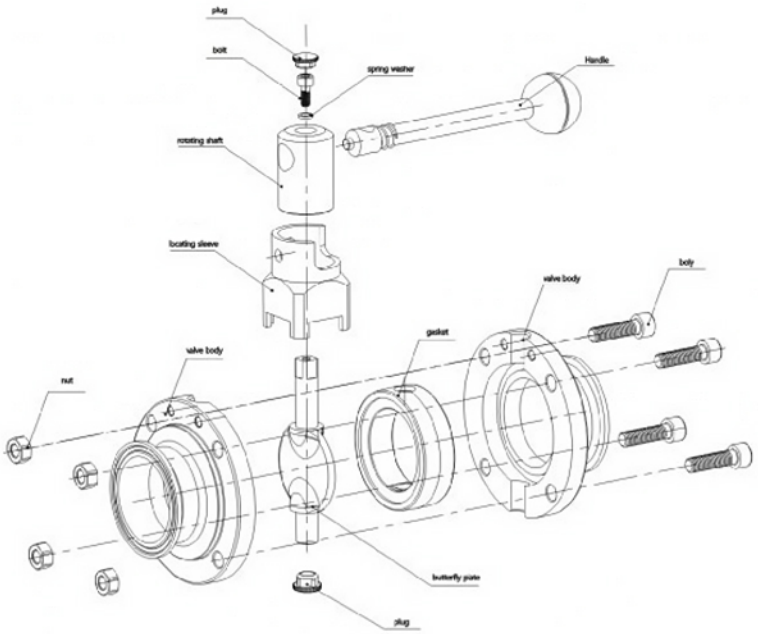
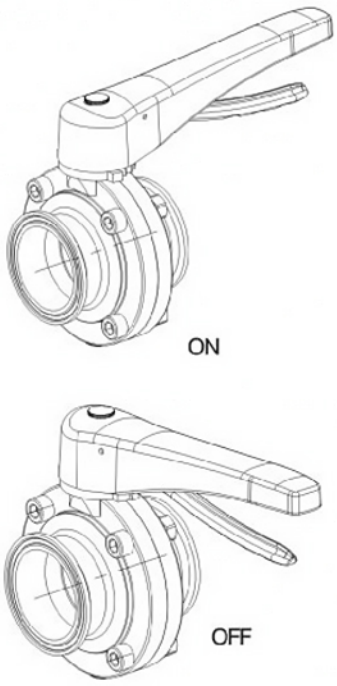
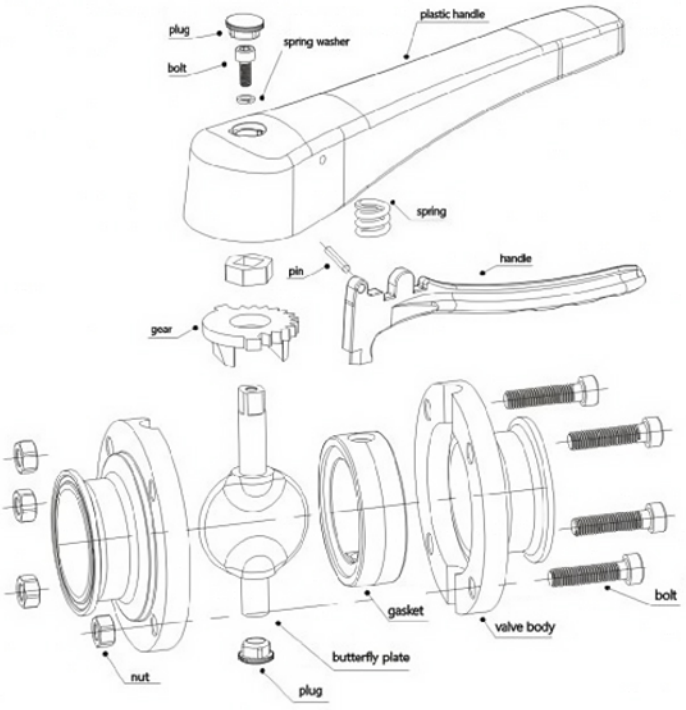
Pull Handle Figure





Multi-position Handle Figure





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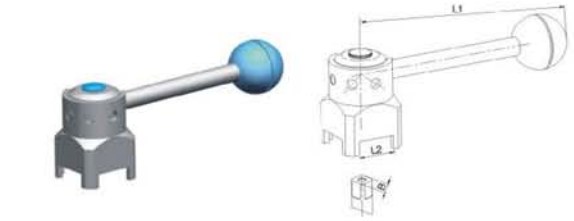
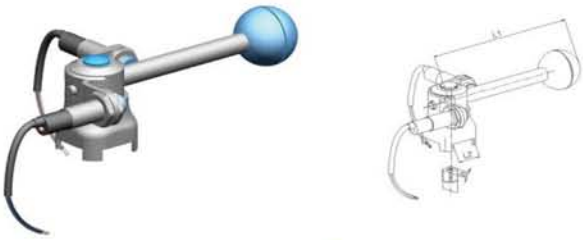
Various Handles



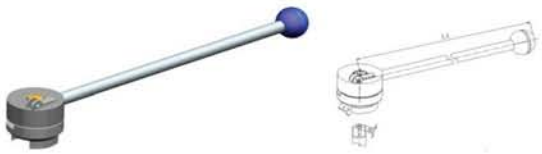
AVH001 4-Position Pull Handle

Size		L1		L2		B	
		Inch	mm	Inch	mm	Inch	mm
DN15-DN40	0.5"-1.5"	4.961	126	0.795	20.2	0.315	8
DN50	2"	5.236	133	0.874	22.2	0.394	10
DN65	2.5"-3"	5.669	144	0.874	22.2	0.394	10
DN80-DN100	3.5"-4"	6.299	160	0.874	22.2	0.433	11
DN125-DN150	5"-6"	8.661	220	1.189	30.2	0.551	14
DN200-DN300	8"-12"	11.181	284	1.189	30.2	0.551	14



AVH002 4-Position Pull Handle with Sensor

Size		L1		L2		B	
		Inch	mm	Inch	mm	Inch	mm
DN15-DN40	0.5"-1.5"	4.961	126	0.795	20.2	0.315	8
DN50	2"	5.236	133	0.874	22.2	0.394	10
DN65	2.5"-3"	5.669	144	0.874	22.2	0.394	10
DN80-DN100	3.5"-4"	6.299	160	0.874	22.2	0.433	11
DN125-DN150	5"-6"	8.661	220	1.189	30.2	0.551	14
DN200-DN300	8"-12"	11.181	284	1.189	30.2	0.551	14



AVH003 Multi-Position Handle

Size		L1		L2		B	
		Inch	mm	Inch	mm	Inch	mm
DN125-DN150	5"-6"	10.118	257	1.189	30.2	0.551	14
DN200-DN300	8"-12"	15.630	397	1.189	30.2	0.551	14

AVH004 Multi-position Handle 07 (Plastic Cover)

Size		L1		L2		B	
		Inch	mm	Inch	mm	Inch	mm
DN15-DN40	0.5"-1.5"	5.906	150	0.795	20.2	0.315	8
DN50-DN65	2"-2.5"	5.906	150	0.874	22.2	0.394	10
DN80-DN100	3"-4"	5.906	150	0.874	22.2	0.433	11

AVH005 Multi-position Handle 09 (Plastic Cover)

Size		L1		L2		B	
		Inch	mm	Inch	mm	Inch	mm
DN15-DN40	0.5"-1.5"	6.457	164	0.795	20.2	0.315	8
DN50-DN65	2"-3"	6.457	164	0.874	22.2	0.394	10
DN80-DN100	3.5"-4"	6.457	164	0.874	22.2	0.433	11

AVH006 Multi-position Handle 11 (Stainless Steel Cover)

Size		L1		L2		B	
		Inch	mm	Inch	mm	Inch	mm
DN15-DN40	0.5"-1.5"	6.535	166	0.795	20.2	0.315	8
DN50-DN65	2"-3"	6.535	166	0.874	22.2	0.394	10
DN80-DN100	3.5"-4"	6.535	166	0.874	22.2	0.433	11
DN125-DN150	5"-6"	6.535	166	1.189	30.2	0.551	14

AVH007 Multi-position Handle 13 (Lockable, SS Cover)

Size		L1		L2		B	
		Inch	mm	Inch	mm	Inch	mm
DN15-DN40	0.5"-1.5"	6.102	155	0.795	20.2	0.315	8
DN50-DN65	2"-3"	6.102	155	0.874	22.2	0.394	10

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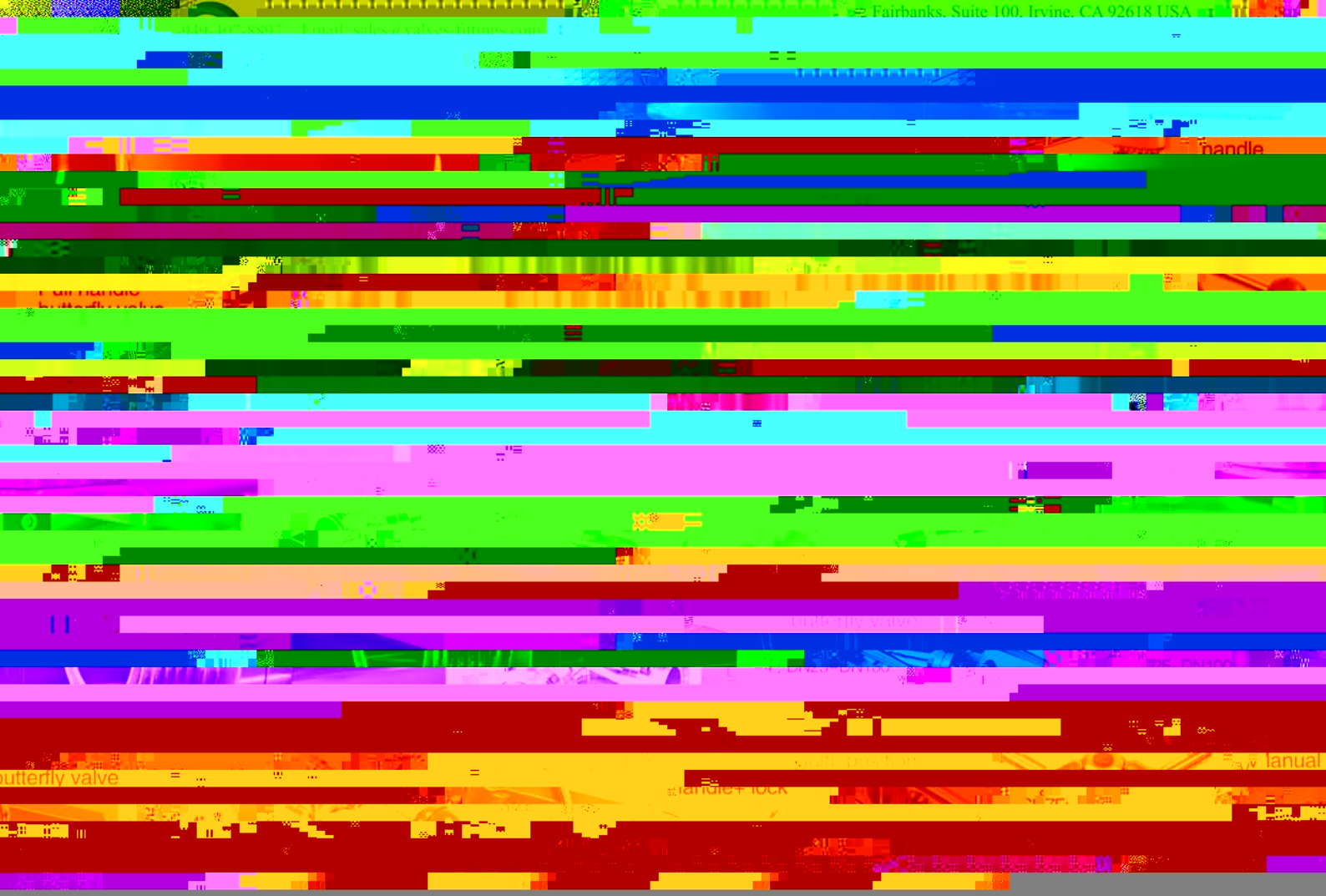
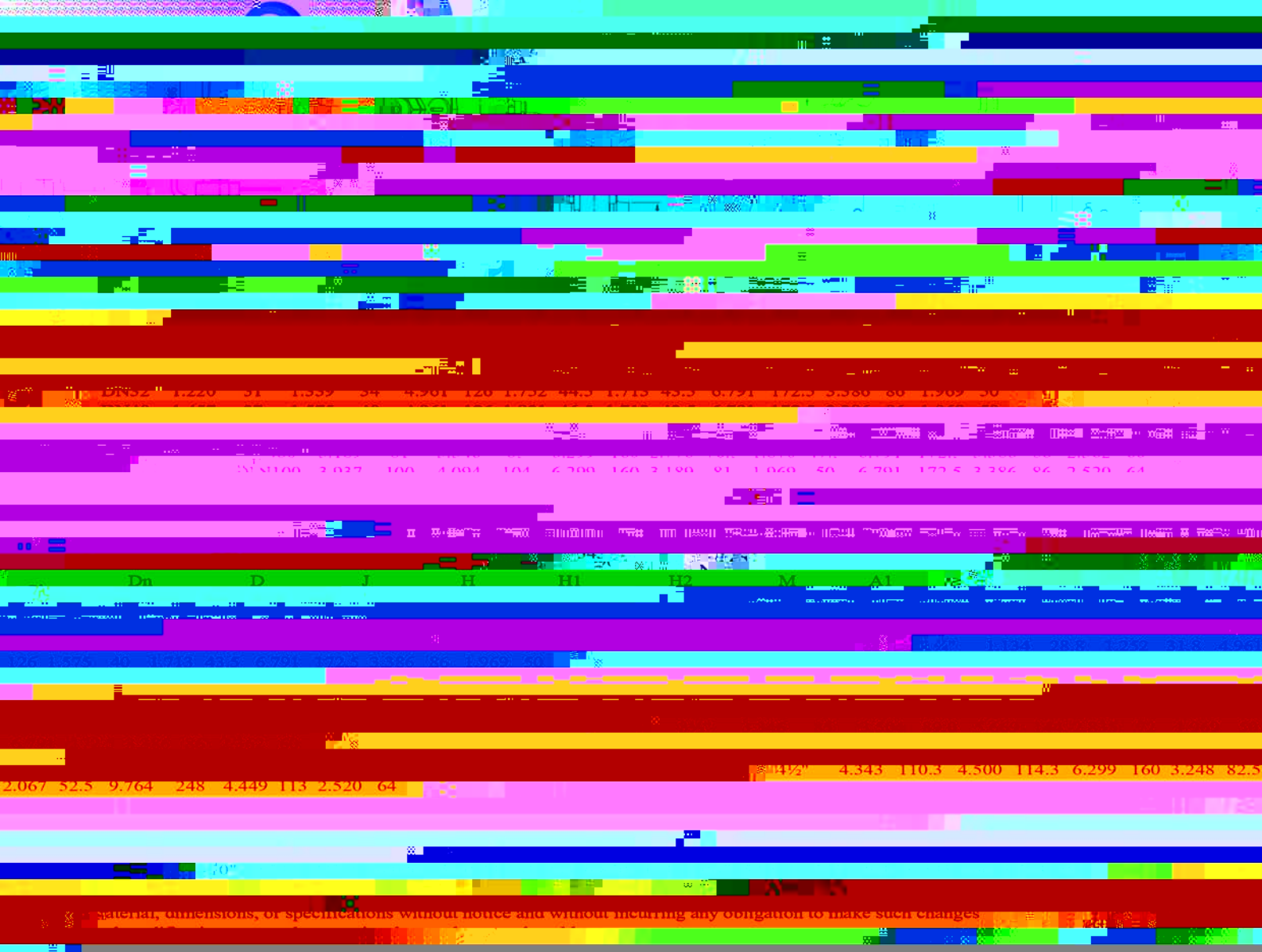


Output:0/4~20mA 0~5/10V
Power supply: DC 24V
SIZE: 1"~2"



Dn D J H H1 H2 M A1

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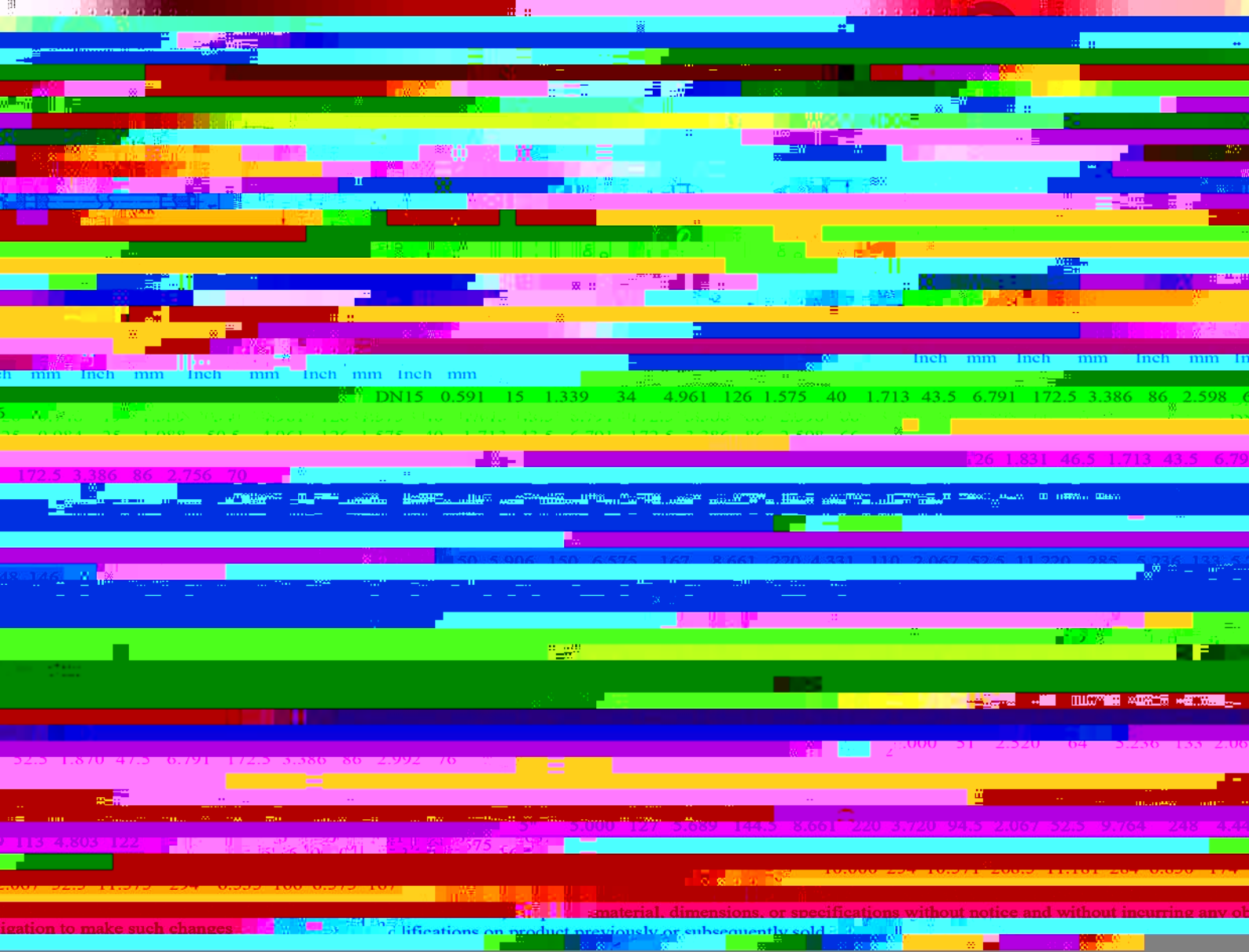
2.067 52.5 9.764 248 4.449 113 2.520 64

material, dimensions, or specifications without notice and without incurring any obligation to make such changes


Inch mm Inch mm Inch mm Inch mm Inch mm
DN15 0.591 15 1.339 34 4.961 126 1.575 40 1.713 43.5 6.791 172.5 3.386 86 2.598
material, dimensions, or specifications without notice and without incurring any ob
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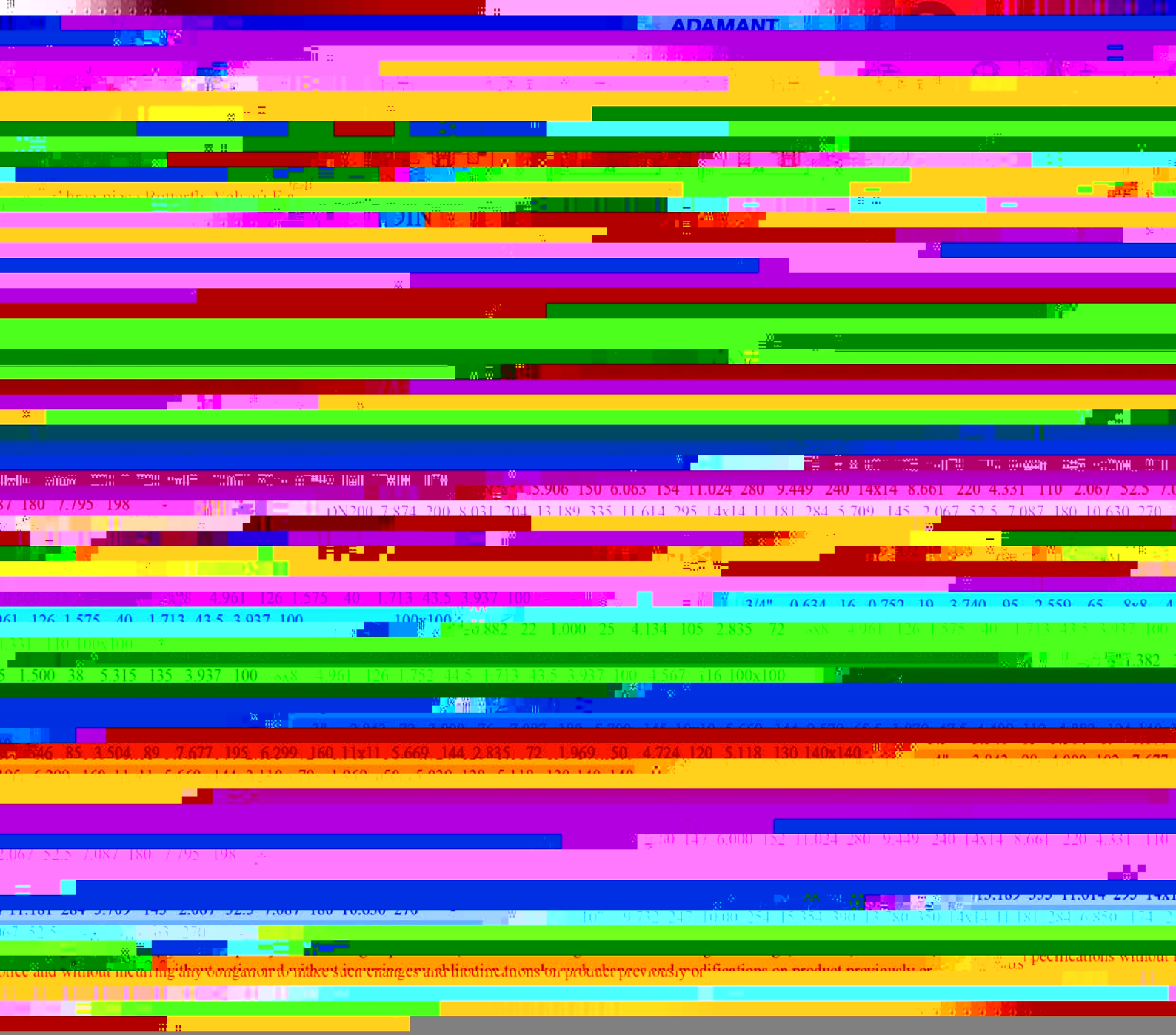
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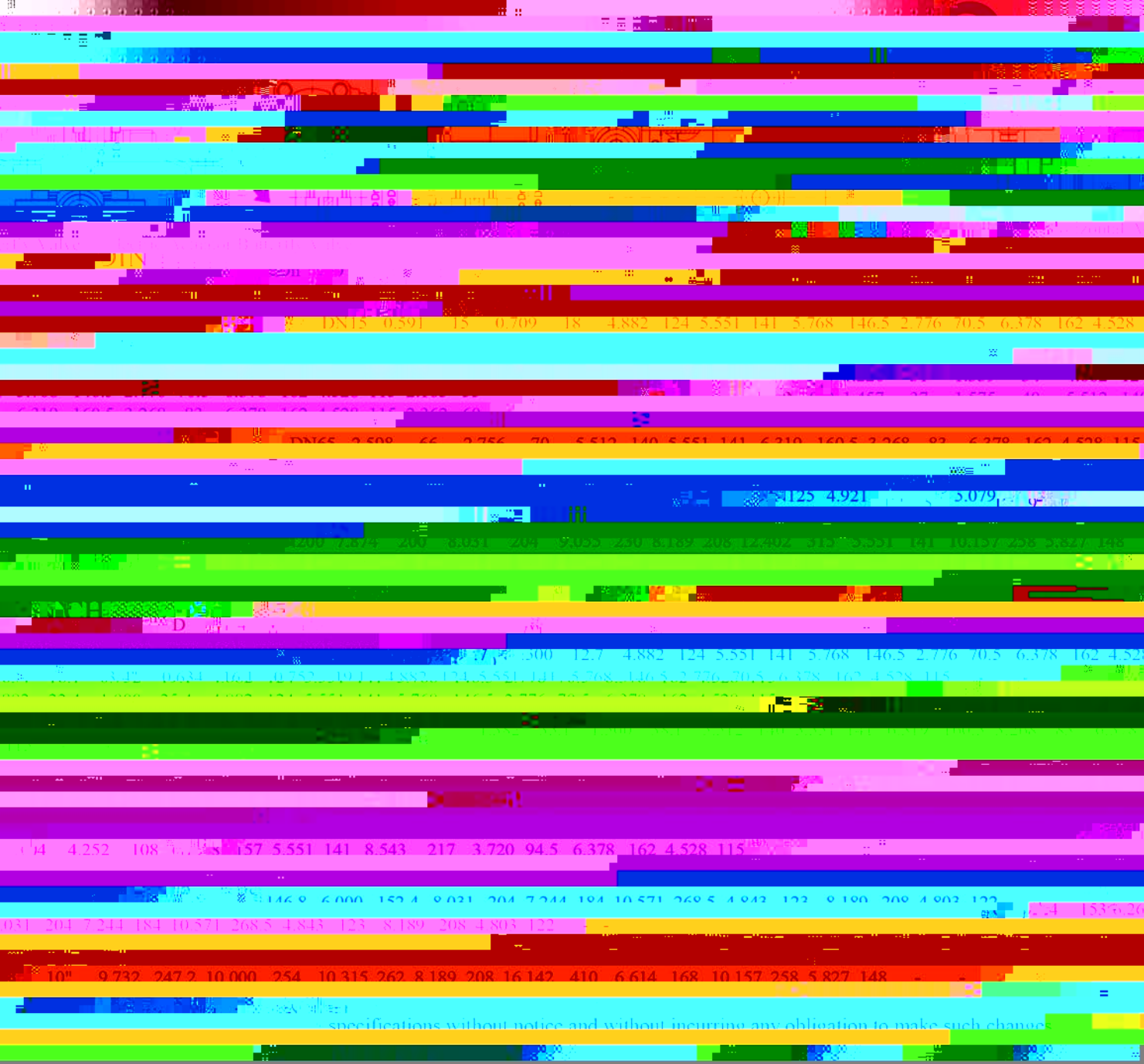

specifications without notice and without incurring any obligation to make such change